LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

ABSTRACT FOR QUALITY CONTROL REPORTS

NAME OF WORK:	Improvements to roads and drains at BHEL Layout and surrounding areas in ward no. 03, Attur

Test details

SL NO	Item Executed	Name of tests	Quantity Executed	Unit	As per Frequency	Requried No of Tests	Actual No of Tests
1	CC	Cement Sand, Aggregates			One test per slot	1	1
2	Steel	Tensile strength	20.64	Tn		1	1
3	Slab 100mm	Compressive Strength	962.82	Sqm		1	1
4	Slab 250mm	Compressive Strength	8.16	Sqm		1	1
5	Kerb	Compressive Strength	2380	No's		1	1
6	Concrete Cubes M-20	Compressive Strength	341.97	Cum	1 to 5 - 1set 6 to 15 - 2set 16 to 30 -3set 31 to 50 - 4set 51 and above 4 plus one additional sample for each additional 50m3 or part thereof	10	10
7	Concrete Cubes M-10	Compressive Strength	197.02	Cum	1 to 5 - 1set 6 to 15 - 2set 16 to 30 -3set 31 to 50 - 4set 51 and above 4 plus one additional sample for each additional 50m3 or part thereof	7	7

LEO CONSTRUCTION & CONSULTANCY BENGALURU

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 10.10.2020

TEST REPORT

CLIENT	:	Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
AGENCY	:	Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
NAME OF THE WORK	:	Improvements to roads and drains at BHEL Layout and surrounding areas in ward no. 03, Attur
SAMPLE ID	:	Cement (ACC – OPC 53 Grade)
DATE OF MANUFACTURE	:	October - 2020
DATE OF TESTING	:	07.10.2020 to 10.10.2020
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	132 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	381 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Note:

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 10.11.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : Improvements to roads and drains at BHEL Layout and surrounding areas in ward no. 03, Attur

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.10.2020	10.11.2020	8.165	285.6	12.69
2	13.10.2020	10.11.2020	8.187	293.2	13.03
3	13.10.2020	10.11.2020	8.193	289.1	12.85

Note:

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 20.10.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : Improvements to roads and drains at BHEL Layout and surrounding areas in ward no. 03, Attur

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.10.2020	20.10.2020	8.121	187.6	8.34
2	13.10.2020	20.10.2020	8.145	192.3	8.55
3	13.10.2020	20.10.2020	8.196	198.5	8.82

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 20.10.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : Improvements to roads and drains at BHEL Layout and surrounding areas in ward no. 03, Attur

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.10.2020	20.10.2020	8.132	213.5	9.49
2	13.10.2020	20.10.2020	8.145	193.7	8.61
3	13.10.2020	20.10.2020	8.163	185.6	8.25

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 21.10.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : Improvements to roads and drains at BHEL Layout and surrounding areas in ward no. 03, Attur

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.10.2020	21.10.2020	8.145	184.3	8.19
2	14.10.2020	21.10.2020	8.162	192.6	8.56
3	14.10.2020	21.10.2020	8.175	201.4	8.95

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LEO CONSTRUCTION & CONSULTANCY BENGALURU

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 11.11.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : Improvements to roads and drains at BHEL Layout and surrounding areas in ward no. 03, Attur

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.10.2020	11.11.2020	8.174	295.3	13.12
2	14.10.2020	11.11.2020	8.163	301.4	13.40
3	14.10.2020	11.11.2020	8.156	286.4	12.73

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LEO CONSTRUCTION & CONSULTANCY BENGALURU

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 12.11.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri.R.Ranganath,** No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : **Improvements to roads and drains at BHEL Layout and surrounding areas in ward no. 03, Attur**

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.10.2020	12.11.2020	8.154	295.3	13.12
2	15.10.2020	12.11.2020	8.162	275.4	12.24
3	15.10.2020	12.11.2020	8.174	302.6	13.45

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LEO CONSTRUCTION & CONSULTANCY BENGALURU

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 13.11.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : Improvements to roads and drains at BHEL Layout and surrounding areas in ward no. 03, Attur

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	13.11.2020	8.222	509.1	22.63
2	16.10.2020	13.11.2020	8.205	516.4	22.95
3	16.10.2020	13.11.2020	8.235	526.3	23.39

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 23.10.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : Improvements to roads and drains at BHEL Layout and surrounding areas in ward no. 03, Attur

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	23.10.2020	8.179	357.6	15.89
2	16.10.2020	23.10.2020	8.197	354.2	15.74
3	16.10.2020	23.10.2020	8.166	368.0	16.36

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LEO CONSTRUCTION & CONSULTANCY BENGALURU

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 24.10.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : Improvements to roads and drains at BHEL Layout and surrounding areas in ward no. 03, Attur

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.10.2020	24.10.2020	8.187	348.9	15.51
2	17.10.2020	24.10.2020	8.163	358.4	15.93
3	17.10.2020	24.10.2020	8.192	336.0	14.93

Note:

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LEO CONSTRUCTION & CONSULTANCY BENGALURU

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 24.10.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : Improvements to roads and drains at BHEL Layout and surrounding areas in ward no. 03, Attur

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.10.2020	24.10.2020	8.184	352.6	15.67
2	17.10.2020	24.10.2020	8.166	361.4	16.06
3	17.10.2020	24.10.2020	8.193	372.5	16.56

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LEO CONSTRUCTION & CONSULTANCY BENGALURU

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 14.11.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : Improvements to roads and drains at BHEL Layout and surrounding areas in ward no. 03, Attur

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.10.2020	14.11.2020	8.231	515.2	22.90
2	17.10.2020	14.11.2020	8.225	524.3	23.30
3	17.10.2020	14.11.2020	8.264	533.8	23.72

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 26.10.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : Improvements to roads and drains at BHEL Layout and surrounding areas in ward no. 03, Attur

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.10.2020	26.10.2020	8.155	357.6	15.89
2	19.10.2020	26.10.2020	8.153	361.2	16.05
3	19.10.2020	26.10.2020	8.174	347.3	15.44

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 12.11.2020

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Contractor : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of Work : Improvements to roads and drains at BHEL Layout and surrounding areas in ward no. 03, Attur

No.of Sample Tested : 03

Date of Testing : 12.11.2020

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl.No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	132.00	2.405	2319.80	1.32	0.960	140.50	17.89	19.32	18.55	23.18
2	100.00	133.00	2.458	2353.10	1.33	0.960	139.20	17.72	19.14	18.38	22.97
3	100.00	134.00	2.486	2362.14	1.34	0.960	142.50	18.14	19.60	18.81	23.51

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date 08.10.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of Work : Improvements to roads and drains at BHEL Layout and surrounding areas in ward no. 03, Attur

Date of Testing 08.10.2020

Material : Sand

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	55	5.50	5.50	94.5	90-100
2.36	145	14.50	20.00	80.0	75-100
1.18	151	15.10	35.10	64.9	55-90
600 Micron	169	16.90	52.00	48.0	35-59
300 Micron	249	24.90	76.90	23.1	8-30
150 Micron	170	17.00	93.90	6.1	0-10

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 15.10.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of Work : Improvements to roads and drains at BHEL Layout and surrounding areas in ward no. 03, Attur

Sample Identification : 8mm,10mm,12mm Fe 500 TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 15.10.2020

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.33	551	607	14
2	Fe 500	10	0.65	564	619	18
3	Fe 500	12	0.84	579	631	19

Remarks:

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